Flame Metals SM 19 th Ed. 3111B, D							
Relevant Aspect of Standards	Reference	Υ	N	N/A	Comments		
Records Examined: SOP Number/ Revision/ Date				Analyst:			
Sample ID: Date of Sample Pre	paration:	Date of Analysis:					
Does the calibration curve include at least three concentration points?	SM3111.B.4.c SM3111.D.4.c						
If samples require digestion, are standards and method blanks also subjected to digestion?	SM3111.A.5 (INTRO)						
Is a blank analyzed with every batch and carried through all of the procedural steps, and are results below the method detection limit?	SM3020						
Are samples associated with a contaminated blank [] reprocessed or [] are the results reported with appropriate data qualifying codes?	SM3020				Corrective action required if MB>MDL.		
Is a matrix spike performed at a frequency of 1 in 10 samples, with an acceptable recovery of 85-115%?	SM3111.A.7 (INTRO)						
Is an additional standard (CCV) analyzed after every batch of 10 or fewer samples? (Recommended concentrations and criteria are in Table 3111:III.)	SM3111.A.7 (INTRO)						
Is a matrix spike duplicate (MSD) or a laboratory duplicate performed at a frequency of 1 in 20 samples per matrix, per sample extraction or preparation method?	SM1020B						
Notes/Comments							

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Relevant Aspect of Standards	Reference	Υ	N	N/A	Comments		
Method Specific Requirements:							
Fuel & oxidant: [] Commercial grade acetylene: [] acetylene cylinders are changed before pressure drops below 100 psi; [] NO copper or brass regulators, tubing, or	SM3111B.3.b, SM3111D.3.a						
fittings are used with acetylene. [] Reagent grade nitrous oxide: [] nitrous oxide supply is equipped with a non-freezable regulator	SM3111D.3.h						
[] Air from compressed air line, laboratory compressor or commercial gas cylinder.	SM3111B.3.a, SM3111D.3.a						
Fuel supplies are maintained at pressure slightly higher than controlled operating pressure by suitable valves.	SM3111A.6.e						
Hollow cathode lamps (single element preferred) or electrode-less discharge lamps may be used.	SM3111A.6.d						
Sample Preparation:							
[] Samples are digested for total metal analysis; or [] samples are received preserved to pH <2 with conc. nitric, and records indicate that the turbidity is less than 1 NTU (drinking water); or [] Samples are preserved in-house, analyzed a	SM3111B.4.a, SM3030A, SM1060A.1				Wastewater samples must be digested.		
minimum of 16 hours after preservation, and records indicate that the turbidity is less than 1 NTU.	(k)(1), EPA 600/R- 94/173						
MDL have been calculated within the last year. The MDL for drinking water [] Barium is equal to or less than 2 mg/L; [] Cadmium is equal to or less than 0.005 mg/L; [] Chromium is equal to or less than 0.1 mg/L; [] Copper is equal to or less than 1.3 mg/L	CFR 141.23						
Notes/Comments			•				